



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

MEMORANDUM

JUN 16 1982

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

TO: Mr. John Lee, PM 31  
Disinfectant Branch  
Registration Division (TS-767)

THRU: Robert B. Jaeger, Section Head  
Review Section #1  
Toxicology Branch/HED (TS-769)

SUBJECT: Golden Solution, EPA Reg. NO. 47651-R  
CASWELL Nos. 16E, 331A, 392H, 613A.

*Handwritten:* 6/16/82  
*Handwritten:* Review Section Head  
*Handwritten:* reply for RBA.

Applicant: Cosco Chemicals, Sub. Kidde, Inc.  
25 Beachway Dr.  
Indianapolis, IN 46224

Requested Action:

Registration for use in manually filled humidifiers to control lime scale, bacteria and algae.

Recommendation(s):

1. The following information is necessary to determine the safety of this product as recommended for use:

a. Concentration of active ingredients in the respirable atmosphere where humidifier is in use. This is to be determined during normal usage for specified time periods (i.e., 8 hours, 16 hours, 24 hours, etc.) at use concentrations and multiples of use concentrations b. The vapor pressures of the components.

c. Based on data obtained in a) a determination will be made concerning the need for a Subchronic Inhalation Test.

2. Submit eye and skin irritation studies (product as formulated).

A. Formulation of Golden Solution:

Active Ingredient

Octyl decyl dimethyl ammonium chloride	0.42150%
Dioctyl dimethyl ammonium chloride	0.21075%
Didecyl dimethyl ammonium chloride	0.21075%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40% C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride	0.56200%
Inert Ingredients:	98.5950%
Total	100.0000%

B. Toxicology data supporting this action:

None

C. Existing toxicity data on

Acute Oral LD<sub>50</sub> = 0.270 (0.150-0.486) g/kg

Acute Dermal LD<sub>50</sub> = 1.10 (0.564-2.150) g/kg

(male rat) = 1.00 g/kg  
(female rat) = 1.62 g/kg

Primary eye irritation - Severe eye irritant

Primary skin irritation - Severe skin irritant

Teratology - not teratogenic at 50 mg/kg (highest dose test).

Carlos Rodriguez  
Review Section #1  
Toxicology Branch/HED (TS-769)

TS-RODRIQUEZ:s11:X73710:5/25/82 card 2

PRODUCT INGREDIENT SOURCE INFORMATION IS NOT INCLUDED